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1 Distributed transaction management: Architecture for transaction man service

Gopi Attaluri, Dexter P. Bradshaw

October 1993 Proceedings of the 1993 conference of the Centre for Advance distributed computing - Volume 2

Full text available: pdf(986.63 KB)

Additional Information: full citation, a

The CORDS multidatabase service (MDBS) provides transparent access to heterogeneous database systems distributed across a communication network. It supports multiple concurrent requests to read data from and write data to component databases. The global transaction manager is the MDBS component that ensures the global atomicity of multiple distributed global transactions ...

2 NFQL: the natural forms query language

David W. Embley

June 1989 ACM Transactions on Database Systems (TODS), Volume 1

Full text available: pdf(3.56 MB)

Additional Information: full citation, abstract, references, c

A means by which ordinary forms can be exploited to provide a basis for query processing is discussed. The Natural Forms Query Language (NFQL) is defined. Computation specifications are formulated by sketching ordinary forms to indicate what operations are specified by altering data on filled-in forms. The meaning of the sketch includes extended abstract data types ...

3 Striping in disk array RM2 enabling the tolerance of double disk failure

Chan-Ik Park, Tae-Young Choe

November 1996

Proceedings of the 1996 ACM/IEEE conference on Super

Full text available: [pdf\(188.13 KB\)](#)

Additional Information: full citation, abstract, re

There is a growing demand in high reliability beyond what current RAID user demand for data reliability. An efficient data placement scheme call which makes a disk array system tolerable against double disk failures. optimal striping unit for RM2 particularly when no workload information array simulator for RM2 has bee ...

4 Parallel data mining for association rules on shared-memory multi-pro

M. J. Zaki, M. Ogihara, S. Parthasarathy, W. Li

November 1996

Proceedings of the 1996 ACM/IEEE conference on Super

Full text available: [pdf\(137.42 KB\)](#)

Additional Information: full citation, abstract, refere

Data mining is an emerging research area, whose goal is to extract sign databases. High-level inference from large volumes of routine business d businesses, such as customer buying patterns, shelving criterion in supe have been proposed for data mining of association rules. However, resea algorithms. In this paper we pres ...

5 Global ID, trusted systems, and communications markets

Jonathan Weinberg

April 2000 Proceedings of the tenth conference on Computers, freedom and

Full text available: [pdf\(72.20 KB\)](#)

Additional Information: full citation, in

6 A localized algorithm for parallel association mining

Mohammed Javeed Zaki, Srinivasan Parthasarathy, Wei Li

June 1997 Proceedings of the ninth annual ACM symposium on Parallel algo

Full text available: [pdf\(1.56 MB\)](#)

Additional Information: full citation, references, citings, ind

7 Using association rules for product assortment decisions: a case study

Tom Brijs, Gilbert Swinnen, Koen Vanhoof, Geert Wets

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery in databases

Full text available: [!\[\]\(23d9fc146e83b5c3013cfa32c784f8d5_img.jpg\) pdf\(799.10 KB\)](#)

Additional Information: full citation, references, abstract, related papers

Keywords: association rules, frequent itemset, product assortment decisions

8 SilkRoute: A framework for publishing relational data in XMLMary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Ching Tan
December 2002 ACM Transactions on Database Systems (TODS), Volume 31, Number 4Full text available: [!\[\]\(dd161862f9164df98f62b726e9846241_img.jpg\) pdf\(687.91 KB\)](#)

Additional Information: full citation, abstract, related papers

XML is the "lingua franca" for data exchange between interenterprise applications. This paper presents SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational tables are presented to the database administrator in a canonical form. The administrator defines in the XQuery query language a public, virtual XML view over the relational tables. The system then formulates an XQuery query over the published tables to publish the data in XML.

Keywords: XML, XML storage systems, XQuery

9 Broadcast and on-line cultural heritage: Copyright protection and management of images of the Hellenic cultural heritageDimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. P. Papadimitriou
November 2001 Proceedings of the 2001 conference on Virtual reality, arcFull text available: [!\[\]\(899d8b7697d64725bf017d3296cfcf1b_img.jpg\) pdf\(358.69 KB\)](#)

Additional Information: full citation, abstract, related papers

The main issue addressed in this paper is the design and implementation of a system which offers specialized services and a Dedicated User Interface for the protection of the Property Rights of digitized material. In addition, another main research objective is the development of a Web Based Library, supported by advanced technologies, for the protection of the work described in this paper. The work described in this paper is based on the use of digital signatures and digital rights management techniques.

Keywords: copyright protection, databases, digital web archives, information systems

10 Limitations of record-based information models

William Kent

March 1979

ACM Transactions on Database Systems (TODS), Volume

Full text available: [pdf\(2.14 MB\)](#)

Additional Information: full citation, abstract, references

Record structures are generally efficient, familiar, and easy to use for many applications, but they are not complete in their ability to represent information, nor are they able to support all types of queries.

Keywords: conceptual model, data model, entities, first normal form, information model, relationships, semantic model

11 Object identity

Setrag N. Khoshafian, George P. Copeland

June 1986 ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming languages and applications, Volume 21 Issue 11

Full text available: [pdf\(1.01 MB\)](#)

Additional Information: full citation, abstract, references

Identity is that property of an object which distinguishes each object from all other objects. It is a fundamental concept in object-oriented programming and databases. We describe a continuum of identity concepts and argue for the incorporation of the strong notion of identity at the core of object-oriented systems.

12 On completeness of historical relational query languages

James Clifford, Albert Croker, Alexander Tuzhilin

March 1994 ACM Transactions on Database Systems (TODS), Volume

Full text available: [pdf\(3.55 MB\)](#)

Additional Information: full citation, abstract, references

Numerous proposals for extending the relational data model to incorporate temporal features have appeared in the past several years. These proposals have differed considerably in their approach and in the extent to which they have been incorporated into the structure of the extended relations or into an extended relational algebra or calculus that they define. Because of the diversity of approaches, it is difficult to evaluate the relative merits of the various proposals.

Keywords: completeness, historical databases, query languages, relational algebra, temporal logic

13 Beyond the handset: designing for wireless communications usability

Leysia Palen, Marilyn Salzman

June 2002 ACM Transactions on Computer-Human Interaction (TOCHI),

Full text available: [pdf\(225.23 KB\)](#)

Additional Information: full citation, abstract, refere

Service-based wireless devices like wireless telephones require users to interact with the hardware and software of the handset. By entering into contractual relationships or using network-based services, users interact with a larger system---one designed by a different device manufacturer, sal ...

Keywords: cell, field study, mobile, qualitative study, social construction theory, usability, wireless telephones

14 Query evaluation techniques for large databases

Goetz Graefe

June 1993

ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available: [pdf\(9.37 MB\)](#)

Additional Information: full citation, abstract, references,

Database management systems will continue to manage large data volumes and manipulating large sets and sequences will be required to provide access. Object-oriented and extensible database systems will not solve this problem and may exacerbate the problem: In order to manipulate large sets of complex objects, systems must manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation problem, object-oriented database systems, operator model of parallelization, parallel set-matching algorithms, sort-hash duality

15 Theseus—a programming language for relational databases

Jonathan E. Shopiro

December 1979

ACM Transactions on Database Systems (TODS), Volu

Full text available: [pdf\(1.76 MB\)](#)

Additional Information: full citation, abstract, reference

Theseus, a very high-level programming language extending EUCLID, is based on relations and a-sets, a generalization of records. The primary design goal was to provide well-structured programs for database applications and to serve as a vehicle for optimization.

Keywords: compiler organization, relational database languages, very high level languages

16 Transaction processing monitors

Philip A. Bernstein
November 1990

Communications of the ACM, Volume 33 Issue

Full text available: [pdf\(3.06 MB\)](#)

Additional Information: full citation, abstract, references

A transaction processing (TP) application is a program that performs an database on behalf of an on-line user. A TP system is an integrated set o products include both hardware, such as processors, memories, disks an such as operating systems (Oss), database management systems (DBMS of the integration of these prod ...

17 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985

ACM Computing Surveys (CSUR), Volume 17 Iss

Full text available: [pdf\(5.49 MB\)](#)

Additional Information: full citation, abstract, references

Distributed operating systems have many aspects in common with centr ways. This paper is intended as an introduction to distributed operating research about them. After a discussion of what constitutes a distributed from a computer network, various key design issues are discussed. Then are examined in some detail ...

18 Characterizing the scalability of a large web-based shopping system

August 2001 ACM Transactions on Internet Technology (TOIT), Volum

Full text available: [pdf\(261.91 KB\)](#)

Additional Information: full citation, abstract, reference

This article presents an analysis of five days of workload data from a lar environment of this Web-based shopping system includes Web servers, assortment of load-balancing and firewall appliances. We characterize us impact on system performance scalability. The purpose of our study is to planning exercises for the multit ...

Keywords: capacity planning, clustering, personalization, scalability anal characterization

19 Toward a logical/physical theory of spreadsheet modeling

Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995

ACM Transactions on Information Systems (TOIS), Volu

Full text available: [pdf\(2.76 MB\)](#)

Additional Information: full citation, abstract, references

In spite of the increasing sophistication and power of commercial spread a methodology to support the construction and maintenance of spreadsh perspective, we identify four principal components that characterize any and binding. We present a factoring algorithm for identifying and extract

Keywords: model management

20 Credit risk management system on e-Commerce: case based reason

Mitsuaki Nakasumi

September 2003

Proceedings of the 5th international conference on Ele

Full text available: [pdf\(153.10 KB\)](#)

Additional Information: full citation, a

This paper addresses the cost imposed on the e-Commerce market when advantage over credit companies; in short, we examine the transaction retailers and customers differ significantly in terms of their riskiness, an permitted to assess these differences, credit companies will attempt to c premiums for equivalent coverage; unless mechan ...

Keywords: XBRL, case-based reasoning, credit risk, e-commerce

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